



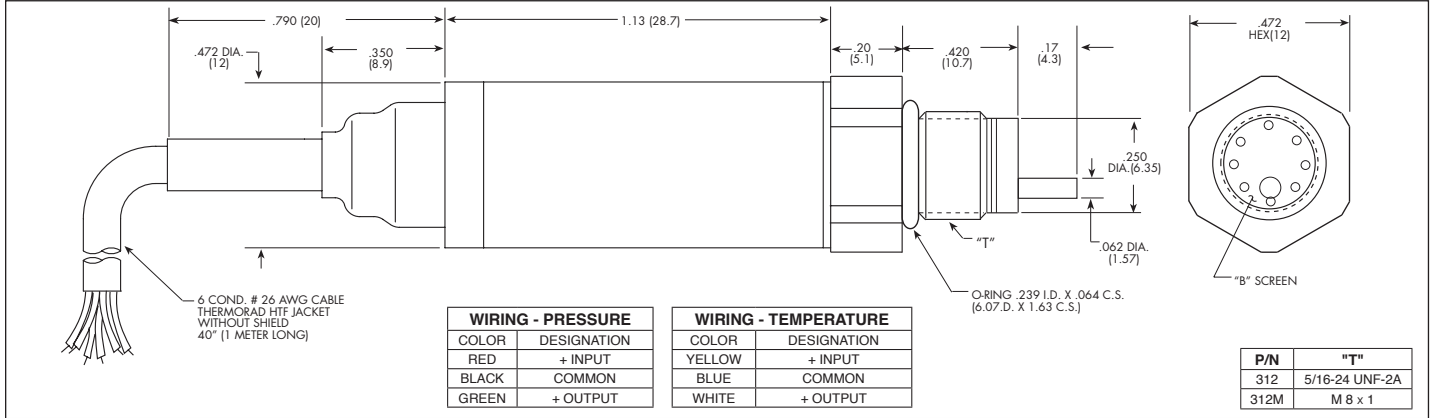
# MINIATURE PRESSURE TRANSDUCER WITH INTEGRATED TEMPERATURE SENSOR

## EPTS-312 (M) SERIES

- Robust Construction
- Voltage Output
- Excellent Long Term Stability
- Fast Response Time
- High Temperature
- High Reliability
- Excellent For High Vibration and Thermal Shock
- Low Self Heating
- Silicon on Silicon Integrated Sensor **VIS®**



The EPTS-312 is a miniature threaded pressure transducer/platinum RTD combination. The pressure transducer utilizes a patented silicon on silicon design.



Pressure Sensor	17	35	70	140	250	350 BAR
Pressure Range	250	500	1000	2000	3600	5000 PSI
Operational Mode	Absolute					
Proof Pressure	2 Times Rated Pressure < 35 BAR, 1.5 Times Rated Pressure ≥ 35 BAR					
Burst Pressure	3 Times Rated Pressure					
Rated Electrical Excitation	12 ± 4 VDC					
Output Type	3-Wire Amplified, Single Ended Output					
Full Scale Output	5V ± 3%					
Residual Unbalance	500 mV ± 50 mV					
Combined Non-Linearity, Hysteresis and Repeatability	± 0.2% FSO BFSL (Typ.), ± 0.4% (Max.)					
Resolution	Infinitesimal					
Operating Temperature Range	-67°F to +400°F (-55°C to +200°C)					
Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C)					
Thermal Zero Shift	± 2.0% FSO/100°C					
Thermal Sensitivity Shift	± 2.0% /100°C					

Temperature Sensor	Platinum Class A RTD
Sensing Principle	Platinum Class A RTD
Rated Electrical Excitation	12 ± 4 VDC
Output Type	3-Wire Amplified, Single Ended Output
Full Scale Output	5V ± 3%
Residual Unbalance	500 mV ± 50 mV
Resolution	Infinitesimal
Operating Temperature Range	-67°F to +400°F (-55°C to +200°C)
Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C)
Response Time	2 Sec. (Typ.)

Media	Any Fluid Compatible With 15-5, 316 Stainless Steel and SiO <sub>2</sub>
Insulation Resistance	100 Megohm (Min.) @ 50 VDC
Steady Acceleration and Linear Vibration	100g Peak, Sine up to 5000 Hz
Mounting Torque	50 Inch-Pounds (Max.) 6Nm
Weight	40 Grams (Max.) Excluding Cable

